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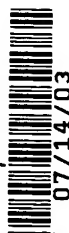
APRIL 18, 2000

PTAS

FOLEY, HOAG & ELIOT LLP  
BETH E. ARNOLD  
ONE POST OFFICE SQUARE  
BOSTON, MA 02109-2170



21909 U.S. PTO  
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VIA-01803

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/19/2000

REEL/FRAME: 010536/0774  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
STONE, EDWIN M.

DOC DATE: 10/13/1999

ASSIGNEE:  
UNIVERSITY OF IOWA RESEARCH  
FOUNDATION, THE  
214 TECHNOLOGY INNOVATION CENTER  
OAKDALE RESEARCH CAMPUS  
IOWA CITY, IOWA 52242-5000

MAY 03 2000

RECEIVED DEPT.  
DOCKETING

SERIAL NUMBER: 09322357  
PATENT NUMBER:

FILING DATE: 05/28/1999  
ISSUE DATE:

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Form PTO-1595

(Rev. 6/93)

OMB No. 0651-0011 (exp. 4/94)

02-11-2000



101265107

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 10 2000

## 1. Name of conveying party(ies):

Edwin M. Stone

Additional name(s) of conveying party(ies) attached? ( ) Yes (X) No

## 3. Nature of conveyance:

(X) Assignment

( ) Merger

( ) Security Agreement

( ) Change of Name

( ) Other

Execution Date: October 13, 1999

## 2. Name and address of receiving party(ies)

Name: The University of Iowa Research Foundation

Internal Address: Oakdale Research Campus

Street Address: 214 Technology Innovation Center

City: Iowa City

State: Iowa

Zip: 52242-5000

Additional name(s) &amp; address(es) attached? ( ) Yes (X) No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

U.S.S.N. 09/322,357; filed May 28, 1999

## B. Patent No.(s)

Additional numbers attached? ( ) Yes (X) No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Beth E. Arnold

Internal Address: Foley, Hoag &amp; Eliot LLP

Street Address: One Post Office Square

City: Boston State: MA ZIP: 02109-2170

## 6. Total number of applications and patents involved: (1)

7. Total fee (37 CFR 3.41).....\$ 40.00

(X) Enclosed

( ) Authorized to be charged to deposit account

## 8. Deposit account number:

06-1448

(Attached duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Beth E. Arnold, Reg. No. 35,430

Name of Person Signing and Reg. No.

Signature

Date

1/12/00

Total number of pages including cover sheet, attachments, and document: (3)

1/11/2000 TICH11 00000127 09322357

Mail documents to be recorded with required covered sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

ASSIGNMENT

I, Edwin M. Stone, of Iowa City, Iowa, in consideration of One Dollar and other valuable consideration paid to me by  
The University of Iowa Research Foundation  
a corporation of Iowa, having its principal place of business at 214 Technology Innovation Center, Oakdale Research Campus, Iowa City, Iowa 52242-5000 the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

The University of Iowa Research Foundation  
its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**Macular Degeneration Diagnostics and Therapeutics**

described in an application

X, Serial No. 09/322,357, filed on May 28, 1999

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 13<sup>th</sup> day of October, 1999.

By: Edwin M. Stone

Edwin M. Stone

State of Iowa )

)ss

County of Johnson )

Then personally appeared the above-named Edwin M. Stone and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 13<sup>th</sup> day of October, 1999.

Patricia A. Smith

Notary Public

My commission expires: 4-19-02

[Notary's Seal Here]

DECEMBER 28, 2000

FOLEY, HOAG & ELIOT LLP  
ANITA VARMA  
ONE POST OFFICE SQUARE  
BOSTON, MA 02109-2170

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111A-01803  
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RECORDATION DATE: 10/18/2000

REEL/FRAME: 011191/0624  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
SHEFFIELD, VAL C.

DOC DATE: 05/11/2000

ASSIGNEE:  
UNIVERSITY OF IOWA RESEARCH  
FOUNDATION, THE  
214 TECHNOLOGY INNOVATION CENTER  
OAKDALE RESEARCH CAMPUS  
IOWA CITY, IOWA 52242-5000

SERIAL NUMBER: 09322357  
PATENT NUMBER:

FILING DATE: 05/28/1999  
ISSUE DATE:

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
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(Rev. 6/93)

OMB No. 0651-0011 (exp. 4/94)

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Patents

1. Name of conveying party(ies):

Val C. Sheffield

Additional name(s) of conveying party(ies) attached? ( ) Yes (X) No

2. Name and address of receiving party(ies)

Name: The University of Iowa Research Foundation

Internal Address: Oakdale Research Campus

Street Address: 214 Technology Innovation Center

City: Iowa City

State: Iowa

Zip: 52242-5000

Additional name(s) &amp; address(es) attached? ( ) Yes (X) No

3. Nature of conveyance:

(X) Assignment

( ) Merger

( ) Security Agreement

( ) Change of Name

( ) Other

Execution Date: May 11, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 11/8

A. Patent Application No.(s)

U.S.S.N. 09/322,357; filed May 28, 1999

B. Patent No.(s)

Additional numbers attached? ( ) Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Anita Varma

Internal Address: Foley, Hoag &amp; Eliot LLP

Street Address: One Post Office Square

City: Boston State: MA ZIP: 02109-2170

6. Total number of applications and patents involved: (1)

7. Total fee (37 CFR 3.41).....\$ 40.00

(X) Enclosed

( ) Authorized to be charged to deposit account

8. Deposit account number:

06-1448

(Attached duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Anita Varma, Reg. No. 43,221

Name of Person Signing and Reg. No.

Signature

Date

Total number of pages including cover sheet, attachments, and document: (3)

Mail documents to be recorded with required covered sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

11/01/2000 GTON11 00000292 09322357

ASSIGNMENT

I, Val C. Sheffield, of Coralville, Iowa, as a duly appointed agent of the Howard Hughes Medical Institute, in consideration of One Dollar and other valuable consideration paid to me by

The University of Iowa Research Foundation

a corporation of Iowa, having its principal place of business at 214 Technology Innovation Center, Oakdale Research Campus, Iowa City, Iowa 52242-5000 the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

The University of Iowa Research Foundation

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**Macular Degeneration Diagnostics and Therapeutics**

described in an application

X Serial No. 09/322,357, filed on May 28, 1999

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 11 day of May, ~~1999~~ <sup>2000</sup>

By: Val C. Sheffield  
Val C. Sheffield

For myself and as an agent of the Howard Hughes Medical Institute

State of Iowa )  
 )ss  
County of Johnson )

Then personally appeared the above-named Val C. Sheffield and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 11 day of May, ~~1999~~ <sup>2000</sup>

Denise J. A. Crouch

[Notary's Seal Here]

Notary Public

My commission expires: 4/18/03